Notice of Allowability	Application No.	Applicant(s)	
	10/622,326	ALGHAMDI, ABDULMALIK A.	
	Examiner	Art Unit	
	Robert A Hopkins	1724	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *application filed 7-17-03*.

2. ☒ The allowed claim(s) is/are *1-30*.

3. ☐ The drawings filed on _____ are accepted by the Examiner.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 9-26-03
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

Drawings

New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because the numerical designations are not of a consistent thickness and height. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

Allowable Subject Matter

Claims 1-29 are allowed.

The following is an examiner's statement of reasons for allowance:

Claim 1 recites "a plurality of blades secured to the horizontal axle for receiving and depositing such particles under the frame member and for rotatably moving with the axle caused by movement of the air currents and particles, a plurality of vertically displaceable supporting members attached to and depending from the frame member". Japanese reference discloses a Savonius type windmill, but does not disclose a plurality of vertically displaceable supporting members attached to and depending from the frame member. It would not have been obvious to someone of ordinary skill in the art at the time of the invention to provide a plurality of vertically displaceable supporting members attached to and depending from the frame member because Japanese

reference does not suggest such a modification. Claims 2-21 depend on claim 1 and hence are also allowed.

Claim 22 recites "at least two windmill blades attached to said axle to form a Savonius type windmill for engagement by the air currents and for receiving and depositing such particles beneath said frame member, said windmill blades rotatably moving with said axle by energy imparted thereto by the air currents and particles carried thereby, a plurality of vertically displaceable supporting members attached to said frame member and depending therefrom". Japanese reference discloses a Savonius type windmill but does not disclose a plurality of vertically displaceable supporting members attached to said frame member and depending therefrom. It would not have been obvious to someone of ordinary skill in the art at the time of the invention to provide a plurality of vertically displaceable supporting members attached to said frame member and depending therefrom because Japanese reference does not suggest such a modification.

Claim 23 recites "a plurality of windmill blades attached to said axle to form a Savonius type windmill for engagement by the air currents and for stopping and depositing and accumulating such particles beneath said frame member... , said windmill blades rotatably moving with said axle by energy imparted thereto by the air currents and particles carried thereby; and means to maintain the height of said frame member with respect to the surface of such particles within a predetermined dimensioned range by progressively raising said frame member as such particles are deposited and accumulated". Japanese reference discloses a Savonius type windmill

but does not disclose means to maintain the height of said frame member with respect to the surface of such particles within a predetermined dimensioned range by progressively raising said frame member as such particles are deposited and accumulated. It would not have been obvious to someone of ordinary skill in the art at the time of the invention to provide means to maintain the height of said frame member with respect to the surface of such particles within a predetermined dimensioned range by progressively raising said frame member as such particles are deposited and accumulated because Japanese reference does not suggest such a modification. Claim 24 depends on claim 23 and hence is also allowed.

Claim 25 recites "a plurality of windmill blades attached to said axle to form a Savonius type windmill for engagement by the air currents and for stopping and depositing and accumulating such particles beneath said frame member; a support device attached to and depending from said frame member at a predetermined number of locations sufficient to support said frame member in a stable manner, each said support device being capable of adjusting the position of the portion of said frame member from which it depends as the height level of accumulated particles thereunder increases". Japanese reference discloses a Savonius type windmill but does not disclose a support device attached to and depending from said frame member at a predetermined number of locations sufficient to support said frame member in a stable manner, each said support device being capable of adjusting the position of the portion of said frame member from which it depends as the height level of accumulated particles thereunder increases. It would not have been obvious to someone of ordinary

skill in the art at the time of the invention to provide a support device attached to and depending from said frame member at a predetermined number of locations sufficient to support said frame member in a stable manner, each said support device being capable of adjusting the position of the portion of said frame member from which it depends as the height level of accumulated particles thereunder increases because Japanese reference does not suggest such a modification. Claims 26-28 depend on claim 25 and hence are also allowed.

Claim 29 recites "providing a self-adjusting Savonius windmill apparatus, the axle of which is mounted to a frame member equipped with a plurality of vertically displaceable supporting members; and positioning the windmill apparatus on a surface and in the air currents with the axle normal to the prevailing direction of the air currents, whereby particles impacting the blades of the windmill are stopped and deposited and accumulated on the surface" . Japanese reference discloses a Savonius type windmill but does not disclose a step of providing a self-adjusting Savonius windmill apparatus, the axle of which is mounted to a frame member equipped with a plurality of vertically displaceable supporting members; and positioning the windmill apparatus on a surface and in the air currents with the axle normal to the prevailing direction of the air currents, whereby particles impacting the blades of the windmill are stopped and deposited and accumulated on the surface. It would not have been obvious to someone of ordinary skill in the art at the time of the invention to provide a step of providing a self-adjusting Savonius windmill apparatus, the axle of which is mounted to a frame member equipped with a plurality of vertically displaceable supporting members; and positioning the

windmill apparatus on a surface and in the air currents with the axle normal to the prevailing direction of the air currents, whereby particles impacting the blades of the windmill are stopped and deposited and accumulated on the surface because Japanese reference does not suggest such a modification. Claim 30 depends on claim 29 and hence is also allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert A Hopkins whose telephone number is 571-272-1159. The examiner can normally be reached on Monday-Friday, 7am-4pm, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Robert A Hopkins
Primary Examiner
Art Unit 1724

Rah
January 6 , 2004